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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b> |  | ATTORNEY'S DOCKET NUMBER<br>31721-219467                            |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP2003/015088  |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>107539279</b> |
| INTERNATIONAL FILING DATE<br>26 November 2003   |  | PRIORITY DATE CLAIMED<br>20 December 2002                           |
| TITLE OF INVENTION      MICROWAVE PLASMA GENERATOR  |  |   |
| APPLICANT(S) FOR DO/EO/US      Masaaki Nagatsu  |  |   |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
  - a. ☒ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: International Preliminary Examination Report; Return Receipt Postcard

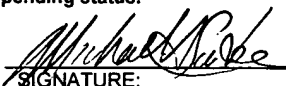
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Approved for use through 03/31/2007. OMB 0651-0021

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|--|--|---|------------|--------------------------|--------------|
| U.S. APPLICATION NO. (If known, see 37 CFR 1.5)  |  | INTERNATIONAL APPLICATION NO.   |            | ATTORNEY'S DOCKET NUMBER |              |
| 107539279  |  | PCT/JP2003/015088   |            | 31721-219467             |              |
| The following fees have been submitted   |  |   |            | CALCULATIONS             | PTO USE ONLY |
| 21.  | <input checked="" type="checkbox"/> Basic national fee | \$300   |            | \$ 300.00                |              |
| 22.  | <input checked="" type="checkbox"/> Examination fee    |   |            |                          |              |
| If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)   |  |   |            | \$ 200.00                |              |
| All other situations   |  |   |            |                          |              |
| 23.  | <input checked="" type="checkbox"/> Search fee         |   |            |                          |              |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority  |  |   |            | \$ 500.00                |              |
| International Search Report prepared and provided to the Office  |  |   |            | \$ 400.00                |              |
| All other situations   |  |   |            | \$ 500.00                |              |
| TOTAL OF 21, 22 and 23 =   |  |   |            | \$ 1,000.00              |              |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |  |   |            |                          |              |
| Total Sheets   | Extra sheets   | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |                          |              |
| 16 - 100 =   | /50 =  |   | x \$250.00 |                          |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).  |  |   |            | \$                       |              |
| CLAIMS   | NUMBER FILED   | NUMBER EXTRA  | RATE       |                          |              |
| Total claims   | 5 - 20 =   |   | x          | \$ 0.00                  |              |
| Independent claims   | 1 - 3 =  |   | x          | \$ 0.00                  |              |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable)  |  |   | +          | \$                       |              |
| TOTAL OF ABOVE CALCULATIONS =  |  |   |            | \$ 1,000.00              |              |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  |  |   |            | \$ 500.00                |              |
| SUBTOTAL =   |  |   |            | \$ 500.00                |              |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).   |  |   |            | +                        | \$           |
| TOTAL NATIONAL FEE =   |  |   |            | \$ 500.00                |              |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |  |   |            | +                        | \$ 40.00     |
| TOTAL FEES ENCLOSED =  |  |   |            | \$ 540.00                |              |
|  |  |   |            | Amount to be refunded:   | \$           |
|  |  |   |            | Amount to be charged:    | \$           |
| <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. 22-0261 in the amount of \$ 540.00 to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 22-0261. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p style="text-align: right;">  June 16, 2005<br/>             SIGNATURE:<br/>             Michael A. Sartori, Ph.D.<br/>             NAME<br/>             _____<br/>             _____<br/>             CUSTOMER NUMBER: 26694<br/>             41,289<br/>             REGISTRATION NUMBER           </p> |  |   |            |                          |              |